

What is claimed is:

1. A data transmitting and receiving apparatus for transmitting and receiving data between an external device and a pertinent bus of a plurality of buses
5 connected by a bridge, the external device forming one portion of the bridge, the data transmitting and receiving apparatus comprising:

storing means for storing first information and second information, the first information representing whether the transmission source or the transmission destination of the data is the data transmitting and receiving apparatus, the second information representing whether or not the data should be transmitted to the pertinent bus;

10 setting means for setting the first information and the second information stored in said storing means to a predetermined state corresponding to an external request; and

transmitting and receiving means for
20 transmitting and receiving the data to/from the pertinent bus or the external device corresponding to the first information and the second information stored in said storing means.

2. The data transmitting and receiving apparatus
25 as set forth in claim 1,

wherein the bridge is a bridge complying with IEEE (The Institute of Electrical and Electronics

Engineers) 1394 high performance serial bus standard.

3. The data transmitting and receiving apparatus as set forth in claim 1,

wherein the first information and the second information are bits or flags.

4. A data transmitting and receiving method for transmitting and receiving data between an external device and a pertinent bus of a plurality of buses connected by a bridge, the external device forming one portion of the bridge, the data transmitting and receiving method comprising the steps of:

storing first information and second information, the first information representing whether the transmission source or the transmission destination of the data is a local device, the second information representing whether or not to the data should be transmitted to the pertinent bus and setting the first information and the second information that have been stored to a predetermined state corresponding to an external request; and

transmitting and receiving the data to/from the pertinent bus or the external device corresponding to the first information and the second information that have been set.

5. The data transmitting and receiving method as set forth in claim 4,

wherein the bridge is a bridge complying with

IEEE (The Institute of Electrical and Electronics Engineers) 1394 high performance serial bus standard.

6. The data transmitting and receiving method as set forth in claim 4,

wherein the first information and the second information are bits or flags.